

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/006659

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
 - ☐ international search (Rule 12.3 and 23.1(b))
 - ☐ publication of the international application (Rule 12.4)
 - ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
 - ☐ the international application as originally filed/furnished
 - ☒ the description:
 - pages 1-16 _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☒ the claims:
 - nos. _____ as originally filed/furnished
 - nos.* _____ as amended (together with any statement) under Article 19
 - nos.* 1-19 _____ received by this Authority on 21.04.2005 with telefax
 - nos.* _____ received by this Authority on _____
 - ☐ the drawings:
 - sheets _____ as originally filed/furnished
 - sheets* _____ received by this Authority on _____
 - sheets* _____ received by this Authority on _____
 - ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
 - ☐ the description, pages _____
 - ☐ the claims, nos. _____
 - ☐ the drawings, sheets/figs _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - ☐ the description, pages _____
 - ☐ the claims, nos. _____
 - ☐ the drawings, sheets/figs _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2, 15	YES
	Claims	1, 3-14, 16-19	NO
Inventive step (IS)	Claims		YES
	Claims	1-19	NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

This report makes reference to the following documents:

D1: EP 0 386 960 A, which describes reversible thermosetting gel compositions with film-forming agents, water and pH regulation for the topical, transdermal and transmucosal treatment of diseases;

D2: WO 99/53897 A, which discloses pH-regulated film compositions for the vaginal treatment of HSV and HIV infections;

D3: EP 0 622 074 A, which discloses a transdermal composition for the administration of butyrophenones with a regulated pH value;

D4: Eaimtrakarn Sudarat *et alia*, International Journal of Pharmaceutics, Vol. 224, No. 1-2 (2001), pages 61-67, which describes how mucoadhesion is influenced by the nature of the film-forming polymer and by the pH value of the targeted organ;

D5: US 2003/091644 A1, which discloses peroxide and a pH-lowering, film-forming polymer for the treatment of vaginal infections.

If not indicated otherwise, reference is made to the passages mentioned in the search report.

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

Film-forming administration forms for the topical, transdermal and transmucosal administration of active substances are already known from D1-D5. They contain film-forming polymers and solvents (most often water), like the present application. The adaptation of the pH value of the composition as required is also already known from the prior art.

Mucous membranes, however, can take pH values of about 1 or less (for example in the human stomach) to about 9 (intestines). As a result, the definition of the pH value of the composition in connection with the pH value of the targeted mucous membrane is not restrictive over the prior art.

D4, in particular, points out that the polymer film is prepared by removing the solvent, mixing it with auxiliary substances, cutting it into parts of suitable size, then administered in dry form.

The subject matter of the present claims 1, 3-14 and 16-19 does not meet the requirements of PCT Article 33(1) and 33(2) for novelty.

Should it be possible to identify a specific novel composition, it might in certain circumstances be considered inventive in relation to the cited prior art (PCT Article 33(1) and 33(3)) because the citations do not address the problem of the irritation of the mucous membranes.